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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/674,794 08/21/2001		Melvyn Little	8484-089-999	5254	
32940	7590 06/10/2005		EXAMINER		
DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT			HELMS, LARRY RONALD		
	DERO CENTER	ART UNIT	PAPER NUMBER		
SUITE 3400		1642			
SAN FRANCISCO, CA 94111			DATE MAILED: 06/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)					
Office Action Summary		09/674,794	4	LITTLE ET AL.					
		Examiner		Art Unit					
		Larry R. He		1642					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1) Responsi	1) Responsive to communication(s) filed on								
2a)☐ This actio	This action is FINAL . 2b) This action is non-final.								
3)☐ Since this	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4) Claim(s) 1-25 is/are pending in the application.									
4a) Of the above claim(s) is/are withdrawn from consideration.									
· <u> </u>	5) Claim(s) is/are allowed.								
, , -	Claim(s) is/are rejected.								
·	is/are objected to.								
8) Claim(s) <u>1-25</u> are subject to restriction and/or election requirement.									
Application Papers	•								
9) The specification is objected to by the Examiner.									
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)∐ The oath o	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U	J.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 									
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
• •	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachment(s)									
1) Notice of Reference			4) Interview Summary	(PTO-413)					
	rson's Patent Drawing Review (PTO-948) sure Statement(s) (PTO-1449 or PTO/SB/0		Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail (6) Other:	, ,	,				

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

To have a general inventive concept under PCT rule 13.1, the inventions need to be linked by a special technical feature. The special technical feature recited in claim 1 is a multivalent Fv having at least four variable domains linked to one another with three linkers wherein linker one and 3 have about one to 10 amino acids. In view of this the combination of Gruber et al (Journal of Immunology 152:5368-74, 1994) in view of US Patent 5534254 reads on the claim. Gruber et al teach a bispecific scfv with three linkers (see Figure 1) and US Patent 5534254 teaches scfv with linkers of 10 amino acids (see column 13, line 21). The references result in rendering the invention obvious because it would have been obvious to combine the teachings to produce the claimed invention by using a 10 amino acid linker of US Patent 5534254 in linking the Vh and VL with the construct of Gruber. Therefore the technical feature recited in claim 1 is not special. Accordingly the groups are not so linked as to form a single general concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

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Group I, claim(s) 1-11, 20, 21, drawn to a multivalent Fv antibody.

Group II, claim(s) 12-19, 22-23, 25, drawn to DNA.

Group III, claim(s) 24 drawn to a method of treating an unspecified disease. It is noted that further restriction may be made if this group is chosen or the diseases are claimed.

2. The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: As set forth above, in view of the teaching of Gruber and US Patent 5534254 the groups are not so linked as to form a single general concept under PCT Rule 13.1 because the technical feature of claim 1 is not special.

Inventions of Groups I-II represent separate and distinct products which are made by materially different methods, and are used in materially different methods which have different modes of operation, different functions and different effects. Group I is a multivalent Fv and Group II is a nucleic acid. The polynucleotide is different in structure from the multivalent Fv of Group I in that the polynucleotide is made up of nucleic acids and he Fv is made up of amino acids. The polynucleotide is made by nucleic acid synthesis while the Fv is made by translation of RNA. The examination of all groups would require different searches in the U.S. Patent shoes and the scientific

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literature and would require the consideration of different patentability issues. Thus the inventions I-II are patentably distinct.

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the Fv of Group I can be used a materially different method such as to purify the antigen in addition to the materially different method of Group III.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter and different searches in the patent literature, restriction for examination purposes as indicated is proper.
- 4. The examiner has required restriction between product and process claims.

 Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance,

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whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

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or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(l).

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- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Larry R. Helms, Ph.D, whose telephone number is (571) 272-0832. The examiner can normally be reached on Monday through Friday from 6:30 am to 4:00 pm, with alternate Fridays off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffery Siew, can be reached at (571) 272-0787.
- 7. Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Fax Center telephone number is 703-872-9306.

Larry R. Helms

LARRY R. HELMS, PH.D PRIMARY EXAMINER

571-272-0832